

# Recombinant Human ABAT Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** ABAT-1795H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	ABAT MS Standard C13 and N15-labeled recombinant protein (NP_000654) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	4-aminobutyrate aminotransferase (ABAT) is responsible for catabolism of gamma-aminobutyric acid (GABA), an important, mostly inhibitory neurotransmitter in the central nervous system, into succinic semialdehyde. The active enzyme is a homodimer of 50-kD subunits complexed to pyridoxal-5-phosphate. The protein sequence is over 95% similar to the pig protein. GABA is estimated to be present in nearly one-third of human synapses. ABAT in liver and brain is controlled by 2 codominant alleles with a frequency in a Caucasian population of 0.56 and 0.44. The ABAT deficiency phenotype includes psychomotor retardation, hypotonia, hyperreflexia, lethargy, refractory seizures, and EEG abnormalities. Multiple alternatively spliced transcript variants encoding the same protein isoform have been found for this gene.
<b>Molecular Mass</b>	56.5 kDa
<b>AA Sequence</b>	MASMLLAQRLACSFQHSYRLLVPGSRHISQAAAKVDVEFDYDGPLMKTEVPGPRSR ELMKQLNIIQNAEAVHFFCNYEESRGNLVDVDGNRMLDLYSQISSVPIGYSHPLLK

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LIQQPQNASMFVNRPALGILPPENFVEKLRQSLLSVAPKGMSQLITMACGSCSNENA  
 LKTIFMWYRSKERGQRGFSQEELETMINQAPGCPDYSILSFMGAFHGRTMGCLAT  
 THSKAIHKIDIPSFWDWPIAPFPRLKYPLEEFVKENQQEEARCLEEVEDLIVKYRKKKKT  
 VAGIIVEPIQSEGGDNHASDDFFRKLRLDIARKHGCAFLVDEVQTGGGCTGKFWAHE  
 HWGLDDPADVMTFSKKMMTGGFFHKEEFRPNAPYRIFNTWLGDPSKNLLLAEVINII  
 KREDLLNNAAHAGKALLTGLLDLQARYPQFISRVGRGTFCSDTTPDDSIRNKLILIA  
 RNKGVVLGGCGDKSIRFRPTLVFRDHHAHLFLNIFSDILADFKTRTRPLEQKLISEEDL  
 AANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** [ABAT 4-aminobutyrate aminotransferase \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [ABAT](#)

**Synonyms** ABAT; 4-aminobutyrate aminotransferase; 4-aminobutyrate aminotransferase, mitochondrial; 4 aminobutyrate transaminase; GABAT; GABA transferase; GABA transaminase; GABA aminotransferase; 4-aminobutyrate transaminase; gamma-amino-N-butyrate transaminase; (S)-3-amino-2-methylpropionate transaminase; NPD009; GABA-AT; FLJ17813; FLJ30272;

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Gene ID	18
mRNA Refseq	NM_000663
Protein Refseq	NP_000654
MIM	137150
UniProt ID	P80404

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